

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : A01N 1/00, 1/02	A1	(11) International Publication Number: WO 00/48462 (43) International Publication Date: 24 August 2000 (24.08.00)
(21) International Application Number: PCT/US00/04270 (22) International Filing Date: 18 February 2000 (18.02.00) (30) Priority Data: 09/252,331 18 February 1999 (18.02.99) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 09/252,331 (CIP) Filed on 18 February 1999 (18.02.99) (71)(72) Applicant and Inventor: FAUSTMAN, Denise, L. [US/US]; 74 Pinecroft Road, Weston, MA 02193 (US). (74) Agent: YANKWICH, Leon, R.; Yankwich & Associates, 130 Bishop Allen Drive, Cambridge, MA 02139 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: METHOD FOR INHIBITING TRANSPLANT REJECTION		

(57) Abstract

A method for inhibiting rejection of tissues transplanted into a mammalian host is disclosed. Treatment of the tissues with an enzyme or combination of enzyme, particularly papain, to eliminate cell surface structures necessary for recognition by the host's immune system, particularly MHC Class I molecules, avoids or reduces the attack of the host's immune system on the transplanted tissues. Tissues that are enzymatically shaved of MHC Class I antigens and/or other critical adhesion molecules can be rendered at least temporarily resistant or immune to attack by cytolytic T lymphocytes, helper T lymphocytes, antibodies, or other effector cells of a host's immune system, thereby enhancing the survivability of the tissues in the host after transplant.

PCT AVAILABLE COPY